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makes a difference

BD 50/70 R Bp Classic

BD 50/70 R Bp Pack Classic

BD 50/70 R Fleet Classic

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EAC



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 Read these original operating instructions before using your device for the first time, follow them accordingly and keep them for later use or for future owners.

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Safety instructions

Before using the device for the first time, read and observe these operating instructions and the accompanying brochure: Safety information for brush cleaning units 5.956-251.0.

The appliance has been approved for use on surfaces with max. gradients as listed under "Technical Specifications".

WARNING

Operators must be properly trained on how to use this machine.

The machine must be parked safely.

Safety devices

Safety devices protect the user and may not taken out of operation or functionally circumvented.

Seat switch

Switches off the engine after a short delay if the operator leaves the seat during operation or while driving.

Symbols on the device

	 DANGER <i>Risk of electric shock during the charging process. Do not remove the terminal protective covers from the battery terminals and ensure correct installation.</i>
---	--

Hazard levels

DANGER

For an imminent danger that will result in serious bodily injuries or death.

WARNING

For a possible imminent risky situation that could result in serious bodily injuries or death.

CAUTION

Indication of a potentially dangerous situation that may lead to minor injuries.

ATTENTION

Indication of a potentially dangerous situation that may lead to damage to property.

Function

This scouring and vacuum machine is used for wet cleaning of level floors.

- The device can be easily adjusted to the respective cleaning task by adjusting the water volume and the detergent volume.
- The detergent dosing unit can be adjusted via the addition in the tank.
- The appliance is equipped with a fresh water and a waste water tank (70 litres each). These allow effective cleaning over long working times.
- A working width of 510 mm enables effective use for long working times.
- Batteries can be selected depending on the configuration (refer to Chapter "recommended batteries")

Note:

The device can be equipped with various accessories to suit the respective cleaning order.

Request a copy of our catalogue or visit our Internet website at www.kaercher.com

Intended use

This device is suitable for commercial and industrial use, e.g. in hotels, schools, hospitals, factories, shops, offices, and rental companies.

Use the device only in accordance with the information in these operating instructions.

- The device may only be used for the cleaning of hard surfaces that are not sensitive to moisture and polishing operations.
- The device is designed for indoor use.
- The operational temperature range is between +5°C and +40°C.
- The device is not suitable for cleaning frozen floors (e.g. in cold stores).
- The device may only be fitted with original accessories and spare parts.
- The device is not intended for cleaning public traffic routes.
- The device must not be used on pressure-sensitive floors. Take into account the permissible load per unit area of the floor. The load per unit area caused by the device is specified in the technical data.
- The device is not suitable for use in potentially explosive environments.
- No flammable gases, undiluted acids or solvents may be taken up with the device.

These include petrol, paint thinner or heating oil, which can form explosive mixtures in the suction air turbulence. Do not use acetone, undiluted acids or solvents, as these corrode the materials used on the device.

Environmental protection



The packing materials can be recycled. Do not dispose of packaging as household rubbish but place it in recycling.



Old devices contain valuable, recyclable materials that should be recycled. Batteries, oil and similar materials must not get into the environment. Therefore, please dispose of old devices using suitable collection systems.

Note on content materials (REACH)

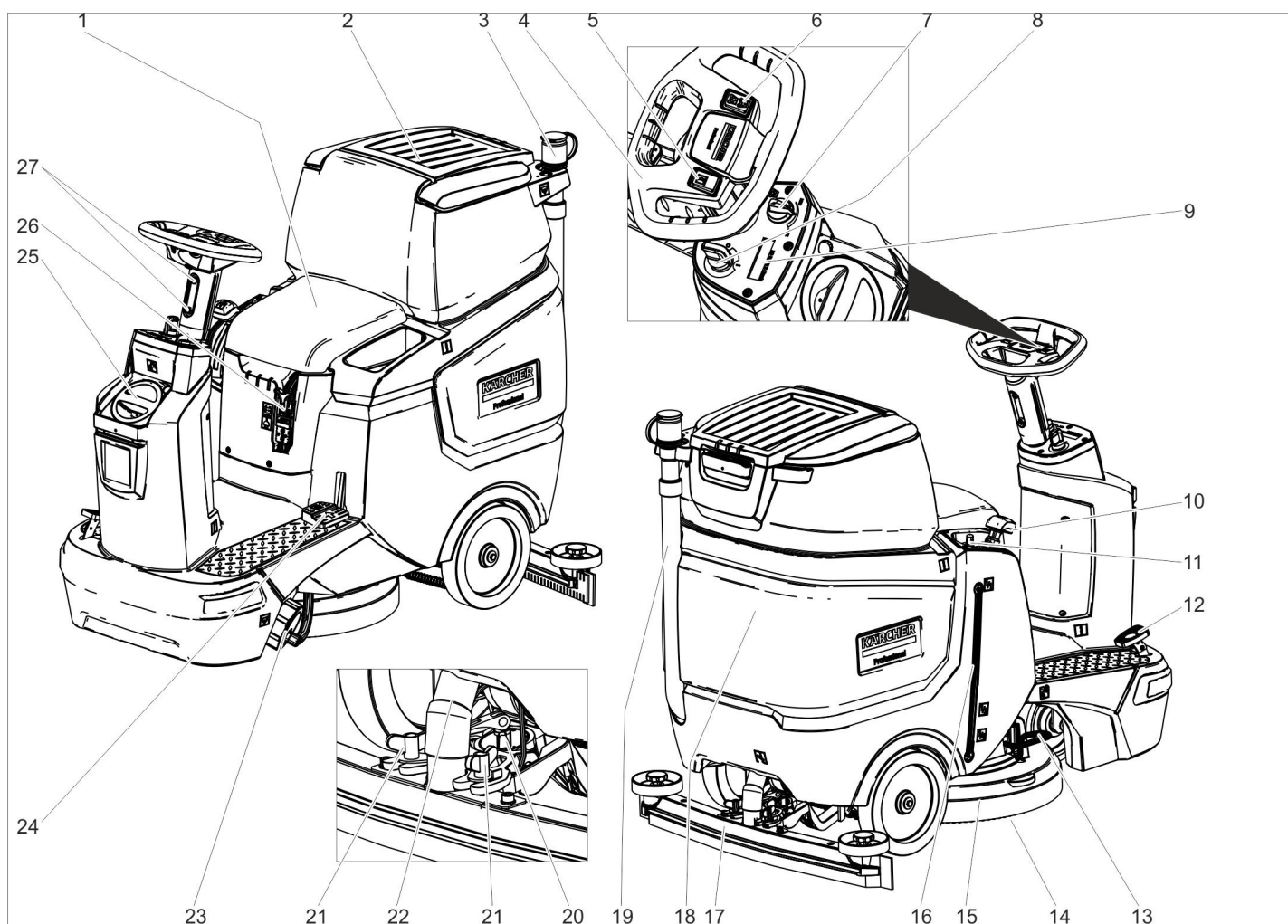
Current information on content materials can be found at:

www.kaercher.de/REACH

Warranty

The warranty conditions issued by our relevant sales company apply in all countries. We shall remedy possible malfunctions on your appliance within the warranty period free of cost, provided that a material or manufacturing flaw is the cause. In a warranty case, please contact your dealer (with the purchase receipt) or the next authorized customer service site.

Control elements



- 1 Seat
- 2 Waste water tank cap
- 3 Dosing equipment for dirt water
- 4 Steering wheel
- 5 Horn push button
- 6 Driving direction switch
- 7 Working speed rotary knob
- 8 Key-operated switch
- 9 Display
- 10 Suction bar lever
- 11 Water volume regulation knob
- 12 Accelerator pedal
- 13 Brush replacement pedal
- 14 Disc brush
- 15 Cleaning head
- 16 Fresh water filling level indicator
- 17 Suction bar *
- 18 Waste water tank
- 19 Waste water drain hose
- 20 Twist grip to incline the suction bar
- 21 Wing nuts for fastening the suction bar
- 22 Suction hose
- 23 Fresh water tank cap with fresh water filter
- 24 Raising/lowering the pedal for the cleaning head
- 25 Lid of fresh water tank
- 26 Battery plug connector
- 27 Steering wheel height adjustment

Colour coding

- Control elements for the cleaning process are yellow.
- Control elements for maintenance and servicing are light gray.

Symbols on the device

		Battery plug connector
		Fresh water tank filling level 25%
		Detergent solution dosing
		Raising/lowering the cleaning head
		Brush replacement pedal
		Raising/lowering the vacuum bar

	Mop holder **
	Fresh water tank drain opening
	Waste water tank drain opening
	Eyelet point

** option

* not in scope of delivery

Before initial startup

Batteries

	Observe the notes on the battery, in the instructions and in the vehicle operating instructions
	Wear eye protection.
	Keep acids and batteries away from children
	Risk of explosion
	Fire, sparks, open flames and smoking are prohibited
	Risk of acid burns
	First aid
	Warning note
	Disposal
	Do not throw batteries in the bin

⚠ DANGER

Risk of explosion!

Do not place tools or similar items on the battery. Short-circuit and risk of explosion. Danger of injury. Never bring wounds into contact with lead. Always clean your hands after working on batteries.

Recommended batteries

105 Ah - maintenance-free	
Order no.	6.654-141.0 ¹⁾
Volume [m ³] *	2,64
Airflow [m ³ /h] **	1,06

* Minimum volume of the battery charging room

** Minimum air flow between battery charging room and environment

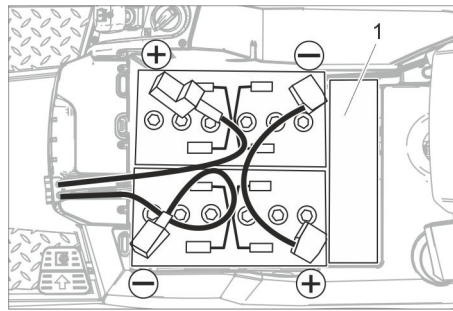
The device requires 2 batteries

¹⁾ Complete set (24 V/105 Ah) incl. connecting cable, order no. 4.039-287.0

Installing and connecting batteries

With the "Pack" variant, the batteries are already installed.

- Disconnect the battery plug connector.
- Pivoting the waste water tank backwards.



1 Spacer

ATTENTION

Risk of damage. Pay attention to the correct polarity.

- Connect the battery terminals using the connecting cable provided.
- Clamp the supplied connecting cables on the (+) and (-) battery terminals that are still free.
- Check for correct installation of the terminal protective covers.
- Plug in the battery connector.

ATTENTION

Risk of damage due to deep discharge. Charge the batteries before initial startup.

Charging batteries

Note:

The appliance is equipped with a total discharge protection, i.e. if the still admissible minimum of the capacity is reached, the appliance can only be driven.

Brush drive and suction are disabled.

- Drive the device directly to the charger and do not drive on slopes.

Note:

When using other batteries (e.g. from other manufacturers), the deep discharge protection for the respective battery must be reset by Kärcher Customer Service.

⚠ DANGER

Danger from electric shock. Note the power supply network and fuse protection - see "Charger".

Only use the charger in dry rooms with sufficient ventilation.

Note:

The average charging time is approx. 10-12 hours.

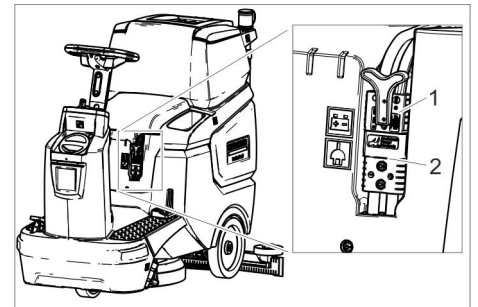
The recommended chargers (for the respective batteries) are electronically controlled and stop the charging process automatically.

⚠ DANGER

Risk of explosion. The room, where the machine is kept to charge the battery, must feature a minimum volume and an air exchange with a minimum flow rate, depending on the type of battery (see "Recommended Batteries").

Risk of explosion. The charging of wet batteries is only permitted if the waste water tank is tilted up.

- Empty the waste water tank.
- Set the key switch to position "0" and pull out the key.
- Pivoting the waste water tank backwards.



1 Battery plug, battery side

2 Battery plug, device side

- Detach the battery plug on the battery side.

ATTENTION

Risk of damage!

- Do **not** connect the charger to the device-side battery connector.
- Only use a charger that is suitable for the installed battery type:

Battery type	Charger
6.654-141.0	6.654-367.0
6.654-093.0	6.654-367.0

Note: Please read the operating instructions of the charger manufacturer, especially the chapters on safety instructions!

- Connect the battery plug on the battery side with the charger.
- Plug the mains plug of the charger into the socket.
- Carry out the charging process in accordance with the information in the operating instructions for the charger.

Low-maintenance batteries (wet batteries)

- One hour before the end of the charging process, add distilled water, observing the correct acid level. The battery is labelled accordingly. All cells must produce gas at the end of the charging process.

⚠ DANGER

Risk of acid burns. Refilling water when the battery is in the discharged state can lead to acid leakage!

When handling battery acid, use safety goggles and observe regulations to prevent injury and destruction of clothing.

Immediately rinse off any splashed acid from the skin or clothing using copious amounts of water.

ATTENTION

Top up the batteries using only distilled or desalinated water (EN 50272-T3).

Do not use any foreign additives (so-called enhancing agents), as this will invalidate any warranty.

Maximum battery dimensions

Length	408
Width	348
Height	284

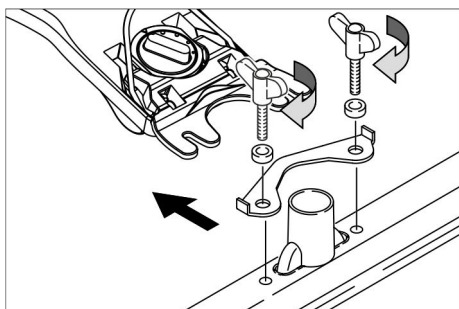
Removing the batteries

- Turn key switch to "0".
- Disconnect the battery plug connector.
- Pivoting the waste water tank backwards.
- Disconnect the cable from negative terminal of the battery.
- Disconnect the remaining cables from the batteries.
- Remove the batteries.
- Dispose of the used batteries in accordance with statutory provisions.

Installing the brushes

The installation of the brushes is described in the chapter "Maintenance tasks".

Installing the suction bar



- Insert the suction bar into the suction bar suspension in such a manner that the profiled sheet is positioned above the suspension.
- Tighten the wing nuts.
- Insert the suction hose.

Adjusting the steering wheel

- Loosen both screws of the steering wheel height adjustment.
- Set the steering wheel to the desired height.
- Tighten both screws.

Operation

ATTENTION

Risk of damage!

Do not disconnect the battery plugs during operation.

Note:

To take all functions out of operation immediately, bring the key switch into the "0" position.

Switching the device on

- Assume the sitting position.
 - Set the key switch to position "1".
- The display shows the following one after the other:
- Period of time until the next aftersales service
 - Software version, control panel
 - Charging state of the battery and number of operating hours

Checking the parking brake

⚠ DANGER

Danger of accident. Before each operation, check the function of the parking brake on level ground.

- Switch on the device.

- Set the travel direction switch to "forward".
- Press the accelerator pedal lightly.
- The brake must audibly unlock. The device must roll off easily on the level. When the pedal is released, the brake engages audibly. If this is not the case, the appliance needs to be put out of operation and aftersales service needs to be called.

Driving

⚠ DANGER

Danger of accident. If the device no longer has any braking effect, proceed as follows:

- If the appliance does not come to a halt on an ascent of above 2%, then the key switch must not be set to 0. The appliance must continue to be operated until a horizontal plane is achieved with it.
- When a horizontal plane has been achieved, the appliance must be shut down and aftersales service needs to be called.
- Additionally, observe the maintenance instructions for brakes.

⚠ DANGER

Danger of tipping over on excessively steep inclines.

- Only drive on uphill gradients up to 8% in the direction of travel.
- Drive only lengthwise on uphill and downhill gradients, do not turn.

Danger of tipping when driving round bends at high speed.

Danger of slipping on wet floors.

- Drive slowly in bends.

Risk of tipping on unstable surfaces.

- Only move the device on stable ground.
- Risk of tipping over if sideways inclination is too great.

- Only drive on uphill gradients transverse to the travel direction up to a maximum of 8%.

Driving

- Assume the sitting position.
- Pull the vacuum bar lever upwards and lock it in place.
- Push the pedal for the cleaning head down and lock it in place.
- Set the key switch to position "1".
- Set the direction of travel using the drive direction button on the steering wheel.
- Specify the travel speed by pressing the accelerator pedal.
- Stopping the device: Take your foot from the accelerator pedal.

Note:

If the cleaning head is raised, the maximum speed is not affected by the working speed rotary knob.

The direction of travel can also be changed during the cleaning operation. This way, a certain position can be intensively cleaned by driving back and forth several times.

Filling with operating materials

Detergent

⚠ WARNING

Risk of damage. Only use the recommended detergents. The operator carries all increased risks relating to operational safety and increased risk of accidents if using other detergents.

Only use detergents free of solvents, salt and hydrofluoric acid.

Adhere to the safety instructions stated on the detergent packaging.

Note:

Do not use strong foaming detergents.

Application	Detergent
Maintenance cleaning of all water-resistant floors	RM 746 RM 780
Maintenance cleaning of polished hard surfaces (e.g. granite)	RM 755 es
Maintenance cleaning and basic cleaning of industrial floors	RM 69 ASF
Maintenance cleaning and basic cleaning of fine stone tiles	RM 753
Maintenance cleaning of tiles in sanitary areas	RM 751
Cleaning and disinfection in sanitary areas	RM 732
Coating removal on all alkali-resistant floors (e.g. PVC)	RM 752
Coating removal on linoleum floors	RM 754

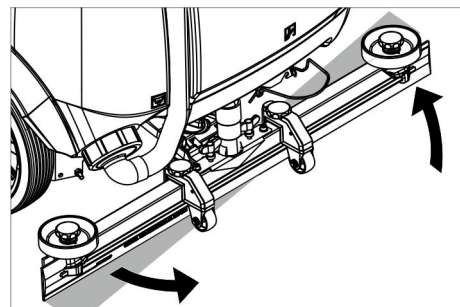
Fresh water

- Open the fresh water tank cap.
- Fill the tank half full using fresh water (maximum 50 °C).
- Fill with detergent.
- Top up the tank with water.
- Remove the fresh water tank cap.

Adjusting the suction bar

Oblique position

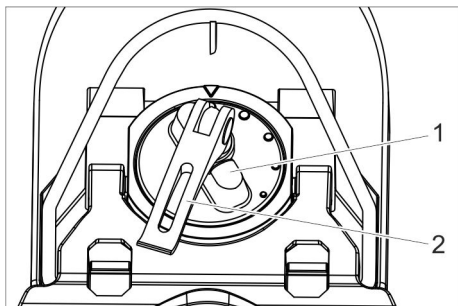
To improve the vacuuming result on tiled floors the suction bar can be turned to an oblique position of up to 5°.



- Release the wing nuts.
- Turn the suction bar.
- Tighten the wing nuts.

Inclination

If the vacuum result is unsatisfactory the inclination of the straight suction bar can be modified.



1 Twist grip

2 Clamping lever

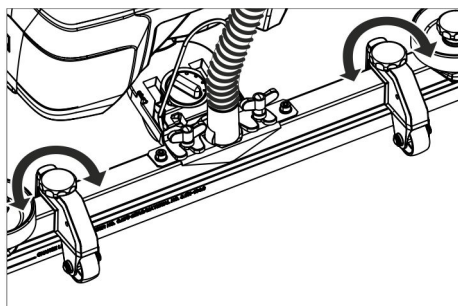
→ Lift the tension lever.

→ Adjust the twist grip to incline the suction bar.

→ Press the tension lever downwards.

Height

The height adjustment affects the bending of the suction lips on contact with the floor.



→ Try adjusting the twist handles of the height adjustment until the best vacuuming result is achieved.

Adjusting the water volume

→ Adjust the water quantity using the regulating button according to the dirt on the floor covering.

Note:

Carry out initial cleaning attempts with low water volume. Increase the water volume step by step until achieving the desired cleaning result.

Cleaning mode

→ Assume the sitting position.

→ Set the key switch to position "1".

→ Set the direction of travel using the drive direction button on the steering wheel.

→ Turn the working speed rotary knob to the desired value.

The speed is shown on the display during the adjustment.

The display is shown in percentage of the maximum speed.

→ Set the water volume at the regulating valve.

→ Pull the lower half of the handle section on the vacuum bar lever upwards and hold it.

→ Press the vacuum bar lever downwards. The vacuum bar is lowered and the suction starts.

→ Press the pedal for the cleaning head downwards/to the right, release it and allow it to move upwards.

→ Specify the travel speed by pressing the accelerator pedal.

The cleaning head is lowered, the brush drive starts and the cleaning solution will be applied.

→ Run over the surface to be cleaned.

→ Stopping the device: Take your foot from the accelerator pedal.

Finishing cleaning

→ Push the pedal for the cleaning head down until it locks into place.

→ Push the appliance a little further to vacuum up the remaining water.

→ Pull the vacuum bar lever upwards until it locks into place.

The suction turbine is switched off after a after-running time of 10 seconds.

→ Turn key switch to "0".

Emptying the waste water tank

Note:

When the waste water tank is full, the float switch closes the suction opening and the suction turbine runs at a higher speed.

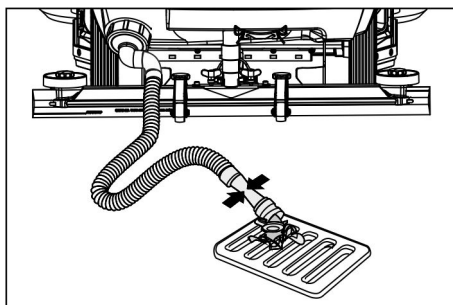
⚠ WARNING

Please observe the local provisions regarding the wastewater treatment.

→ Take the waste water drain hose out of the support and lower it over a suitable collecting device.

Note:

The wastewater flow can be controlled by squeezing the dosing unit.



→ Drain the water by opening the dosing valve on the drain hose.

→ Then rinse the wastewater container with clear water.

Empty the fresh water tank

→ Unscrew the cover on the fresh water tank.

→ Drain the fresh water.

→ Screw the cover onto the fresh water tank.

Shutting down

→ Charge battery, if required.

Transport

⚠ DANGER

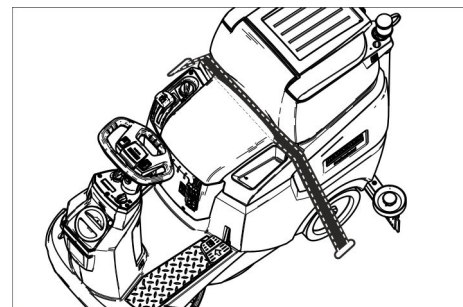
Danger of injury! When loading or unloading the device, it may only be operated on gradients up to the maximum value (see "Technical Specifications"). Drive slowly.

⚠ CAUTION

Risk of injury and damage! Mind the weight of the device during transport.

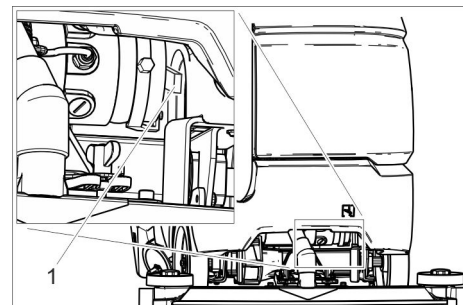
→ Drain the fresh water tank and waste water tank prior to loading.

→ Remove the disc brush from the brush head.



→ When transporting in vehicles, secure the device against slipping and tipping over according to the applicable guidelines.

Pushing the device



1 Unlocking lever

→ Press the unlocking lever upwards and push the appliance.

⚠ DANGER

Danger of accident due to lacking brake function.

You must press the unlocking lever down again after pushing the appliance.

Storage

⚠ CAUTION

Risk of injury and damage! Consider the weight of the device when storing it.

→ This device may only be stored indoors.

→ Choose a storage location considering the device's maximum permissible weight to avoid affecting stability.

Care and maintenance

⚠ DANGER

Danger of injury! Before performing any work on the device, turn the key-operated switch to "0" and remove the key. Pull the battery plug.

→ Drain and dispose of the waste water and the residual fresh water.

⚠ CAUTION

Risk of injury due to overrun of the suction turbine.

The suction turbine continues to run after switch-off. Only carry out maintenance work after the suction turbine has shut-down.

Maintenance schedule

After work

ATTENTION

Risk of damage. Do not spray the device with water and do not use aggressive detergents.

- Drain the waste water.
- Rinse the waste water tank with clear water.
- Clean the coarse dirt filter.
- Clean the outside of the device with a damp cloth which has been soaked in mild washing lye.
- Clean the vacuum lips, check for wear and replace if required.
- Check the brushes for wear, replace if required.
- Charging the battery:
If the charging state of the battery is under 50%, charge the battery fully and without interruption.
If the charging state of the battery is over 50%, only recharge the battery if the entire operation duration will be required when next used.

Weekly

- When used regularly, charge the battery fully and without interruption at least once a week.

Monthly

- Drain the fresh water tank and flush out deposits.
- Clean the fresh water filter.
- Clean the swimmer.
- Clean the fluff filter.
- If the device is temporarily shut down: Carry out refill charging for the battery.
- Check battery poles for oxidation, brush off if necessary. Make sure the connection cables are firmly in place.
- Clean the seals between the waste water tank and cover and check for tightness, replace if required.
- Check the acid density of the cells if the batteries are not maintenance-free batteries.
- For long periods of disuse, only park and store the device when the batteries are fully charged. Fully recharge the battery at least every month.

Annually

- Have the prescribed inspection carried out by the customer service.

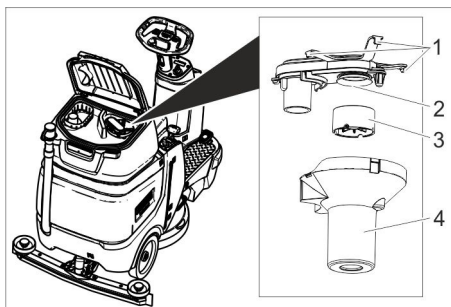
Maintenance work

Service contract

To ensure a reliable operation of the device, maintenance contracts can be concluded with the competent Kärcher sales outlet.

Clean the float and fluff filter

- Open the waste water tank cap.

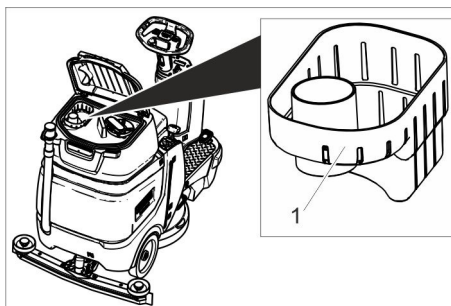


- 1 Latching hooks
- 2 Fluff filter
- 3 Float
- 4 Float housing

- Detach locking hooks.
- Pull off the float housing in a downward direction.
- Remove the float from the float housing and clean it.
- Clean the fluff filter.
- Reassemble all parts in the reverse order.

Cleaning the coarse dirt sieve

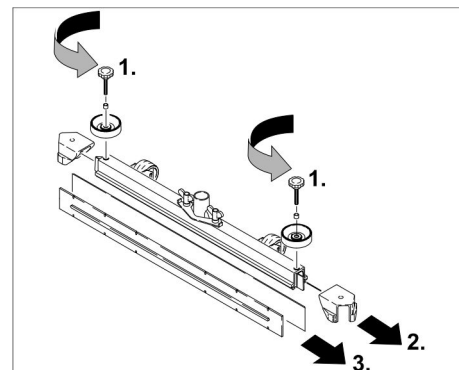
- Open the waste water tank cap.



- 1 Coarse dirt filter
- Pull the coarse dirt filter off in an upward direction.
 - Rinse off the coarse dirt filter under running water.
 - Reinsert the coarse dirt filter into the waste water tank.

Replacing the suction lips

- Remove the suction bar.
- Unscrew the star handles.



- Remove the plastic parts.
- Remove the vacuum lips.
- Insert the new vacuum lips.
- Insert the plastic parts.
- Screw in and tighten the star handles.

Replacing the disk brushes

- Raise the cleaning head.
- Press the pedal for changing the brushes downward beyond its resistance.
- disc brush sideways and out from underneath the cleaning head.
- Hold the new disc brush under the cleaning head, then press upwards and latch it into position.

Frost protection

If there is a risk of frost:

- Empty the fresh and dirt water tanks.
Park the device in a frost-protected room.

Troubleshooting guide

⚠ DANGER

Danger of injury! Before performing any work on the device, turn the key-operated switch to "0" and remove the key. Pull the battery plug.

➔ Drain and dispose of the waste water and the residual fresh water.

⚠ CAUTION

Risk of injury due to overrun of the suction turbine.

The suction turbine continues to run after switch-off. Only carry out maintenance work after the suction turbine has shut-down.

Malfunction	Rectification
Device does not start	Seat switch not operated, sit down on the seat. The machine only operates if the operator is seated on the seat.
	Plug in the battery connector.
	Set the key switch to position "1".
	Take your foot off the accelerator before switching on the key switch. If the fault still recurs, call customer service.
	Check the battery and charge if necessary.
Device does not move	Press the unlocking lever downwards (see "Transport/Pushing the appliance").
Low water quantity	Increase the water volume at the water volume regulating knob.
	Check fresh water level, top up tank if necessary.
	Clean the fresh water filter.
	Check the hoses for clogging; clean if necessary.
Poor suction performance	Waste water tank is full; shut off the device and empty the waste water tank
	Clean the seals between the waste water tank and cover and check for tightness, replace if required
	Check the fluff filter for soiling, clean if necessary.
	Clean the vacuum lips on the suction bar, turn or replace if required.
	Check the suction bar for clogging and remove any clogging if necessary
	Check that the cap on the waste water drain hose is closed
	Check the suction hose for clogging; clean if necessary.
	Check the suction hose for leaks; clean if necessary.
	Check dirt water drain hose to see it is leak-proof.
Unsatisfactory cleaning result	Check the setting of the suction bar.
	Attach additional weight (accessory) to the vacuum bar.
	Check the brushes for wear, replace if required.
Speed of suction turbine has increased	Check the suitability of the brush type and detergent used.
	Empty the waste water tank.
	Clean the swimmer.
	Clean/check the fluff filter.
	Check the suction hose for clogging; clean if necessary.
Brush does not rotate	Check the suction bar for clogging and remove any clogging if necessary
	Check if the brushes are blocked by foreign bodies and remove the foreign bodies if necessary.
Contact Customer Service in the case of malfunctions that cannot be corrected using this table.	

Accessories

Description	Part no.	Description
Disc brush, red (medium, standard)	4.905-026.0	For the use with all common cleaning tasks.
Disc brush, natural colour (soft)	4.905-027.0	Made of natural fibres for spot cleaning and polishing.
Disc brush, black (hard)	4.905-029.0	For heavy soiling and for deep cleaning. For robust floorings only.
Pad drive board	4.762-534.0	For cleaning with pads. With quick change coupling and center lock.
Pad, red (medium soft)	6.369-079.0	For cleaning all floors.
Pad, green (medium hard)	6.369-078.0	For cleaning heavily soiled floors and for basic cleaning.
Pad, black (hard)	6.369-077.0	For stubborn soiling and for basic cleaning.
Pad, beige (light grain)	6.369-468.0	For polishing and refreshing of hard and flexible floorings.
Pad, beige (natural hair proportion)	6.371-146.0	
Suction bar, 850 mm, straight	4.777-401.0	
Suction bar, 850 mm, bent	4.777-411.0	
Set homebase box	4.035-406.0	
Flashing beacon	4.039-267.0	
Fleet Management module	4.039-268.0	
Bag holder	4.039-269.0	
Presweep unit	4.039-270.0	
Mop holder	4.039-271.0	
Spray mop	5.999-045.0	
Pliers for course dirt	6.999-113.0	

Technical data

Power		
Nominal voltage	V	24
Battery capacity	Ah (5h)	76 / 105
Mean power input	W	1400
Nominal power engine	W	300
Suction motor power	W	600
Brush engine output	W	500
Protection class		IPX 3
Suctioning		
Suction performance, air quantity	l/s	17
Cleaning power, negative pressure, max.	kPa	120
Cleaning brushes		
Working width	mm	510
Brush diameter	mm	510
Brush speed, loaded	rpm	155
Brush speed, unloaded	rpm	180
Dimensions and weights		
Driving speed, max.	km/h	6
Slope max.	%	8
Theoretical surface coverage	m ² /h	2300
Fresh water tank volume	l	70
Waste water tank volume	l	75
Max. water temperature	°C	50
Ambient temperature	°C	5...40
Length	mm	1310
Width (without suction bar)	mm	590
Height	mm	1066
Approved total weight	kg	340
Transport weight (tanks empty, without driver)	kg	194

Load per unit area (with driver and full fresh water tank)

Front wheel	N/cm ²	102
Rear wheel	N/cm ²	124

Determined values in acc. with EN 60335-2-72

Vibration total value on arms	m/s ²	<2,5
K uncertainty	m/s ²	0,2
Vibration total value on seat area	m/s ²	<0,5
K uncertainty	m/s ²	0,1
Sound level L _{pA}	dB(A)	66
Uncertainty K _{pA}	dB(A)	2
Sound power level L _{WA} +	dB(A)	80,3
Uncertainty K _{WA}		

Accessories and spare parts

Only use original accessories and original spare parts. They ensure that the appliance will run both reliably and smoothly. Information on accessories and spare parts can be found at www.kaercher.com.

EU Declaration of Conformity

We hereby declare that the machine described below complies with the relevant basic safety and health requirements in the EU Directives, both in its basic design and construction as well as in the version placed in circulation by us. This declaration is invalidated by any changes made to the machine that are not approved by us.

Product: Floor cleaning ride-on machine
Type: 1,161-xxx

Currently applicable EU Directives

2006/42/EC (+2009/127/EC)
 2014/30/EU
 2000/14/EC
 2014/53/EU (TCU)

Harmonized standards used

EN 60335-1
 EN 60335-2-72
 EN 62233: 2008
 EN 55012: 2007 + A1: 2009
 EN 61000-6-2: 2005

TCU

EN 301 511 V12.5.1
 EN 300 440 V2.1.1
 EN 300 328 V2.2.2
 EN 300 330 V2.1.1

National standards used

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The signatories act on behalf of and with the authority of the company management.


 H. Jenner
 Chairman of the Board of Management


 S. Reiser
 Director Regulatory Affairs & Certification

Documentation supervisor:
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Winnenden, 2021/11/01